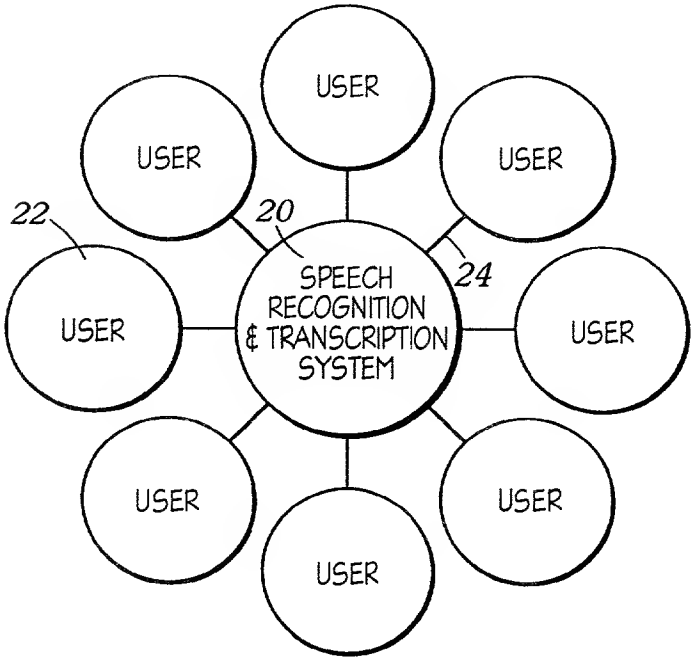
USER
USER
USER
22
20
24
SPEECH RECOGNITION & TRANSCRIPTION SYSTEM
USER
USER
USER
USER
USER
USER

FIG. 1

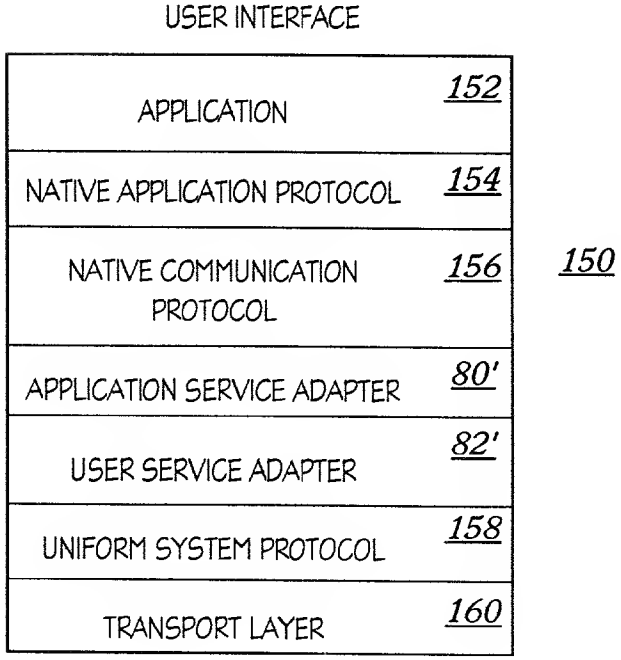
USER INTERFACE
APPLICATION 152
NATIVE APPLICATION PROTOCOL 154
NATIVE COMMUNICATION PROTOCOL 156
150
APPLICATION SERVICE ADAPTER 80'
USER SERVICE ADAPTER 82'
UNIFORM SYSTEM PROTOCOL 158
TRANSPORT LAYER 160

FIG. 4

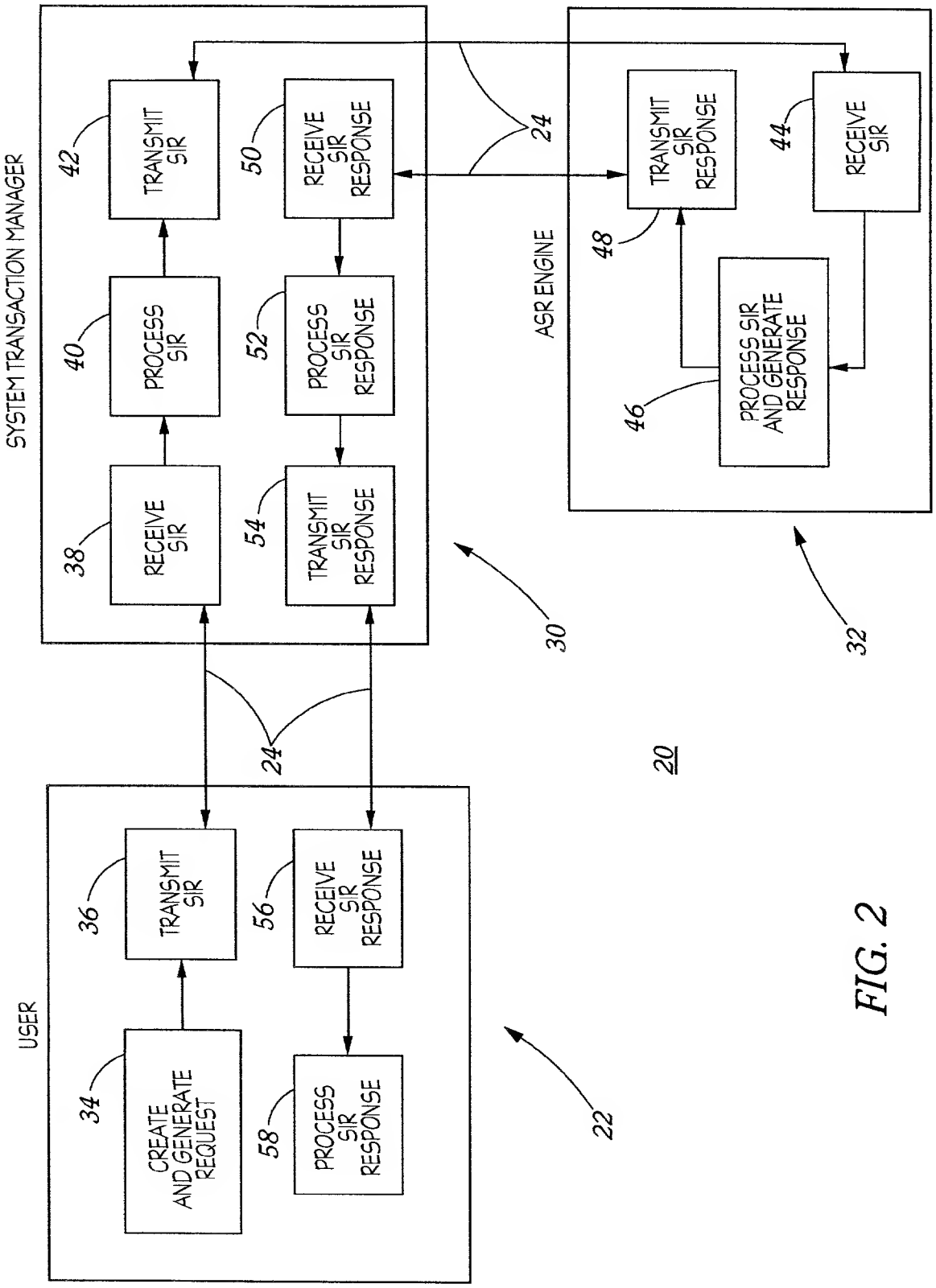
SYSTEM TRANSACTION MANAGER
ASR ENGINE
USER
TRANSMIT SIR
RECEIVE SIR RESPONSE
PROCESS SIR
PROCESS SIR RESPONSE
RECEIVE SIR
TRANSMIT SIR RESPONSE
CREATE AND GENERATE REQUEST
PROCESS SIR RESPONSE
RECEIVE SIR
TRANSMIT SIR RESPONSE
PROCESS SIR AND GENERATE RESPONSE
42
50
40
52
38
54
24
48
44
46
30
32
20
36
56
34
58
22

FIG. 2

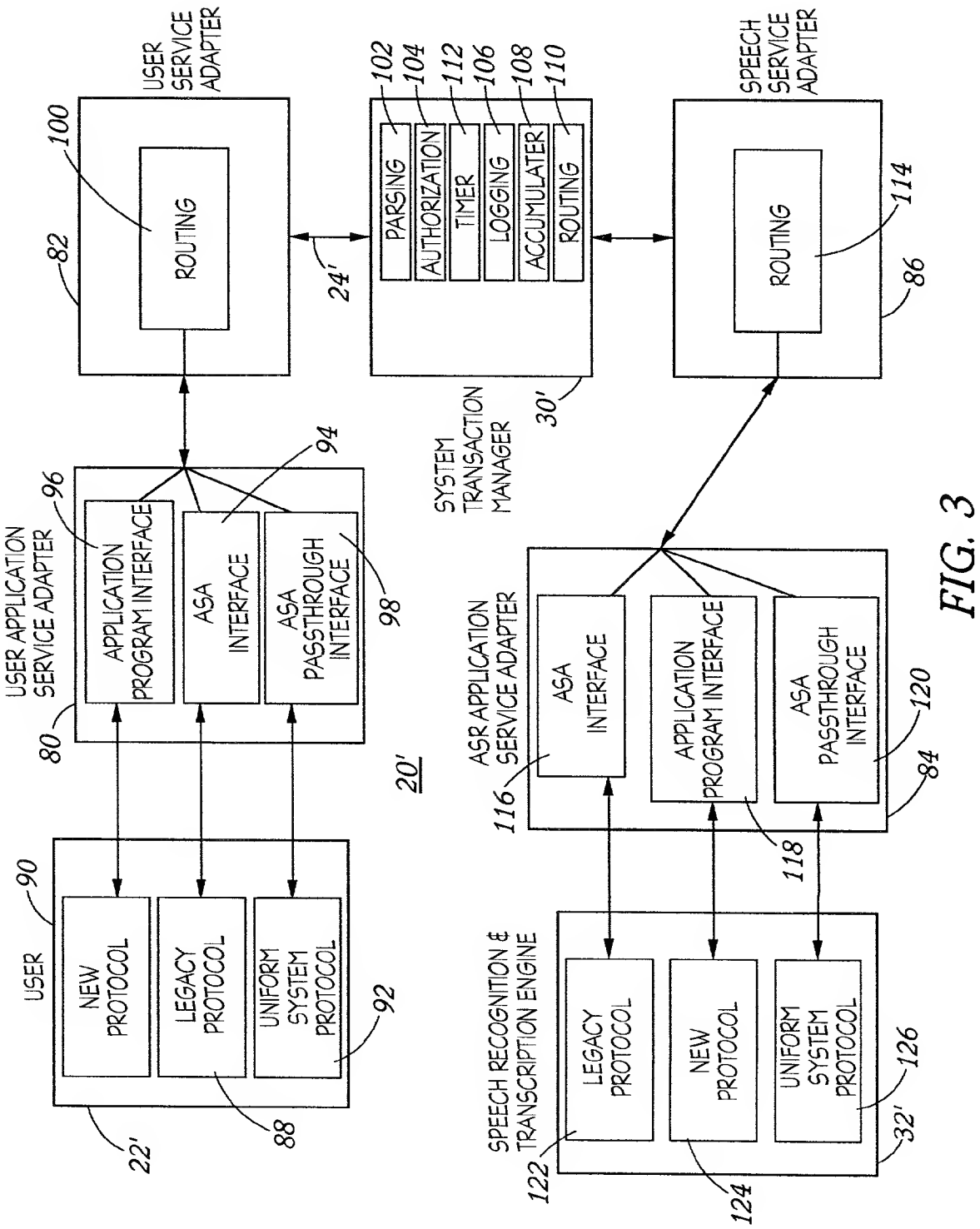
USER SERVICE ADAPTER
ROUTING
82
100
PARSING
AUTHORIZATION
TIMER
LOGGING
ACCUMULATER
ROUTING
102
104
112
106
108
110
24'
SPEECH SERVICE ADAPTER
ROUTING
114
86
SYSTEM TRANSACTION MANAGER
30'
USER APPLICATION SERVICE ADAPTER
APPLICATION PROGRAM INTERFACE
ASA INTERFACE
ASA PASSTHROUGH INTERFACE
96
94
98
80
20'
ASR APPLICATION SERVICE ADAPTER
ASA INTERFACE
APPLICATION PROGRAM INTERFACE
ASA PASSTHROUGH INTERFACE
116
118
120
84
USER
NEW PROTOCOL
LEGACY PROTOCOL
UNIFORM SYSTEM PROTOCOL
90
92
88
22'
SPEECH RECOGNITION & TRANSCRIPTION ENGINE
LEGACY PROTOCOL
NEW PROTOCOL
UNIFORM SYSTEM PROTOCOL
122
124
126
32'

FIG. 3

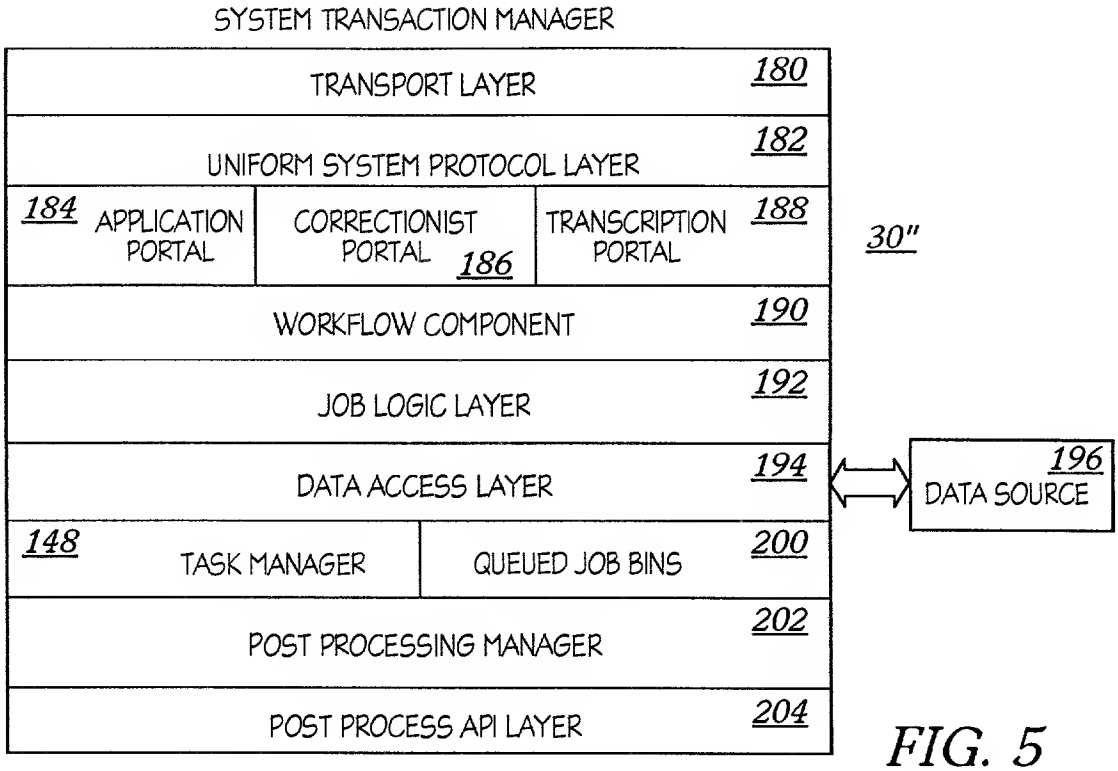
SYSTEM TRANSACTION MANAGER
TRANSPORT LAYER 180
UNIFORM SYSTEM PROTOCOL LAYER 182
184 APPLICATION PORTAL
CORRECTIONIST PORTAL 186
TRANSCRIPTION PORTAL 188
30"
WORKFLOW COMPONENT 190
JOB LOGIC LAYER 192
DATA ACCESS LAYER 194
196 DATA SOURCE
148 TASK MANAGER
QUEUED JOB BINS 200
POST PROCESSING MANAGER 202
POST PROCESS API LAYER 204

FIG. 5

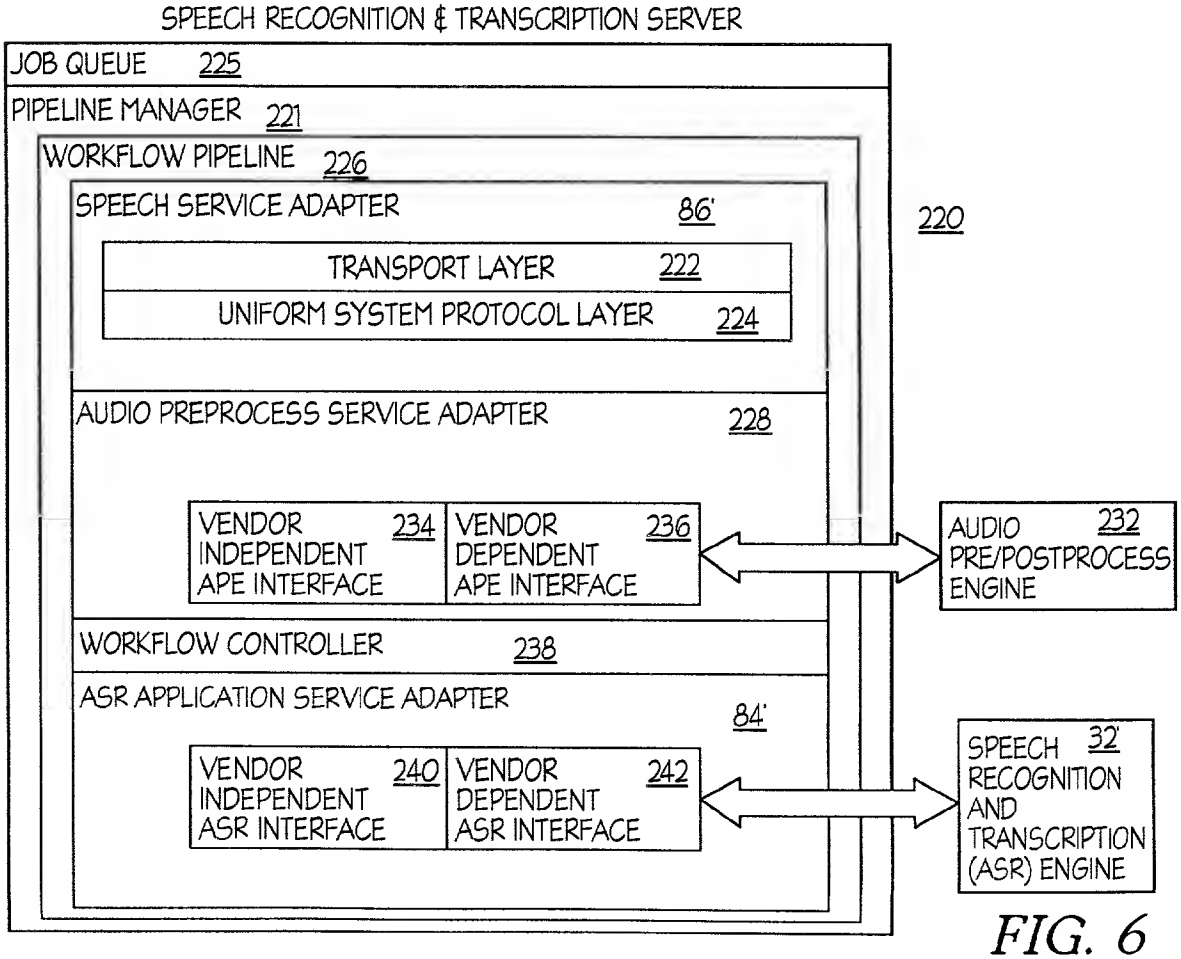
SPEECH RECOGNITION & TRANSCRIPTION SERVER
JOB QUEUE 225
PIPELINE MANAGER 221
WORKFLOW PIPELINE 226
SPEECH SERVICE ADAPTER 86'
220
TRANSPORT LAYER 222
UNIFORM SYSTEM PROTOCOL LAYER 224
AUDIO PREPROCESS SERVICE ADAPTER 228
VENDOR INDEPENDENT APE INTERFACE 234
VENDOR DEPENDENT APE INTERFACE 236
AUDIO PRE/POSTPROCESS ENGINE 232
WORKFLOW CONTROLLER 238
ASR APPLICATION SERVICE ADAPTER 84'
VENDOR INDEPENDENT ASR INTERFACE 240
VENDOR DEPENDENT ASR INTERFACE 242
SPEECH RECOGNITION AND TRANSCRIPTION (ASR) ENGINE 32'

FIG. 6